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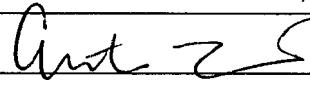
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Application Number	10/591,315
Filing Date	September 1, 2006
First Named Inventor	Kai Wucherpfennig
Art Unit	1614
Examiner Name	Not Yet Assigned
Attorney Docket Number	PEPT-P01-006

ENCLOSURES (Check all that apply)

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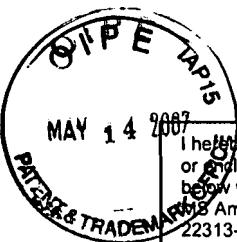
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Signature			
Printed name	Erika Takeuchi		
Date	May 9, 2007	Reg. No.	55,661

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Dated: May 9, 2007

Signature:  (Linda Blake)



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Dated: May 9, 2007

Signature: Linda Blake
(Linda Blake)

Docket No.: PEPT-P01-006
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Wucherpfennig et al.

Application No.: 10/591,315

Confirmation No.: 9509

Filed: September 1, 2006

Art Unit: 1614

For: METHODS AND COMPOSITIONS FOR
TREATMENT OF AUTOIMMUNE
DISEASES

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

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P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

In accordance with 37 CFR 1.98(a)(2)(ii), Applicants have not submitted copies of U.S. patents and U.S. patent applications. Applicants submit herewith copies of foreign patents and non-patent literature in accordance with 37 CFR 1.98(a)(2).

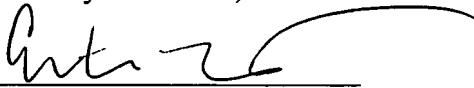
In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 18-1945, under Order No. PEPT-P01-006. A duplicate copy of this paper is enclosed.

Dated: May 9, 2007

Respectfully submitted,

By 
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Substitute for form 1449A/B/PTO				Complete If Known	
				Application Number	10/591,315
				Filing Date	September 1, 2006
				First Named Inventor	Kai W. Wucherpfennig
				Art Unit	1614
				Examiner Name	Not yet assigned
Sheet	1	of	4	Attorney Docket Number	PEPT-P01-006

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
AA	US-6,844,314	01-18-2005	Eisenbach-Schwartz et al.		
AB	US-2004/0038887	02-26-2004	Strominger et al.		
AC	US-2002/0183385	12-05-2002	Ellison et al.		
AD	US-2002/0055455	05-09-2002	Aharoni et al.		
AE	US 2003/0004099	01-02-2003	Eisenbach-Schwartz et al.		
AF	US-6,214,791	04-10-2001	Arnon et al.		
AG	US-5,858,964	01-12-1999	Aharoni et al.		
AH	US-5,800,808	09-01-1998	Konfino et al.		
AI	US-3,849,550	11-19-1974	Teitelbaum et al.		

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
BA	WO 06/031727		03-23-2006	Harvard College U.S.	
BB	WO 05/032482		04-14-2005	Bayhill Therapeutics Inc.	
BC	WO 05/112972		12-01-2005	Peptimmune Inc.	
BD	WO 05/120542		12-22-2005	Peptimmune Inc.	
BE	WO 04/064717		08-05-2004	Yeda Research and Development Co. Ltd.	
BF	WO 03/000277		01-03-2003	The Hospital for Sick Children	
BG	WO 03/029276		04-10-2003	President and Fellows of Harvard College	
BH	WO 01/18794		04-06-2000	Yeda Research and Development Co., Inc.	
BI	WO 00/20010		04-13-2000	Teva Pharmaceuticals USA, Inc.	
BJ	WO 00/05250		02-03-2000	Yeda Research and Development Co. Ltd.	
BK	WO 00/05249		02-03-2000	The President and Fellows of Harvard College	
BL	WO 92/02543		02-20-1992	Cytel Corporation	
BM	WO 00/27417		05-18-2000	Yeda Research and Development Co., Ltd.	
BN	WO 03/047500		06-12-2003	Yeda Research and Development Co., Ltd.	

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				Art Unit	1614
				Examiner Name	Not yet assigned
Sheet	2	of	4	Attorney Docket Number	PEPT-P01-006

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
	CA	ALTMANN, D., "Evaluating the Evidence for Multiple Sclerosis as an Autoimmune Disease", ARCH Neurol., Vol. 62, pp. 688-690, 2005.			
	CB	BARNETT, M., et al., "Relapsing and Remitting Multiple Sclerosis: Pathology of the Newly Forming Lesion", Ann. Neurol, 55: 458-468, 2004.			
	CC	BOGGIANO, C., et al., "Discovery and characterization of highly immunogenic and broadly recognized mimics of the HIV-1 CTL epitope Gag 77-85", Eur. J. Immunol, 35:1428-1437 (2005).			
	CD	BOURDETTE, D. et al., "Immunity to TCR Peptides in Multiple Sclerosis", J Immunol., 152: 2510-2519 (1994).			
	CE	CHAUDHURI, A., et al., "Multiple Sclerosis Is Not an Autoimmune Disease", Arch. Neurol., Vol. 61, pp. 1610-1612, 2004.			
	CF	DHIB-JALBUT, S., "Glatiramer acetate (Copaxone) therapy for multiple sclerosis", Pharmacology & Therapeutics, 98 (2003), pp. 245-255.			
	CG	FAIRCHILD, P. et al., "Altered peptide ligands as therapeutic agents for the treatment of allograft rejection", Current Topics in Peptide & Protein Research, Vol. 6, 237-244 (2004).			
	CH	FARINA et al., "Glatiramer acetate in multiple sclerosis: update on potential mechanisms of action", The Lancet (Neurology), Vol. 4, 567-575, September 2005.			
	CI	FLECHTER et al., "Copolymer 1 (Glatiramer Acetate) in Relapsing Forms of Multiple Sclerosis:Open Multicenter Study of Alternae-Day Administration", Clinical Neuropharmacology, Vol. 25, No. 1, 11-15, 2002.			
	CJ	FRANK, R., "Principles of simultaneous synthesis of multiple peptides", Screening of T and B cell epitopes, Chapter 10.3, 778-781, (1997).			
	CK	FRIDKIS-HARELI, M., et al., "Binding Motifs of Copolymer 1 to Multiple Sclerosis- and Rheumatoid Arthritis-Associated HLA-DR Molecules, J of Immunol, 162: 4697-4704 (1998).			
	CL	FRIDKIS-HARELI et al., "Direct binding of myelin basic protein and synthetic copolymer 1 to class II major histocompatibility complex molecules on living antigen-presenting cells – specificity and promiscuity", Proc. Natl. Acad. Sci. USA, Vol. 91, 4872-4876, May 1994.			
	CM	FRIDKIS-HARELI et al., "Novel synthetic amino acid copolymers that inhibit autoantigen-specific T cell responses and suppress experimental autoimmune encephalomyelitis", The J Clin Invest, Vol. 109, No. 12, 1635-1643, June 2002.			
	CN	HANCOCK, W. et al., "Differential Effects of Oral Versus Intrathymic Administration of Polymorphic Major Histocompatibility Complex Class II Peptides on Mononuclear and Endothelial Cell Activation and Cytokine Expression during a Delayed-Type Hypersensitivity Response", Amer J Pathol, Vol. 144, No. 6, 1149-1158, (1994).			
	CO	HOUGHTEN, R., et al., "Mixture-Based Synthetic Combinatorial Libraries", Journal of Medical Chemistry, Vol. 42, No. 19, 3643-3778, 1999.			
	CP	http://eanatomy.cc/4.htm , Section 4, The Acquired Immune Response, 1-71, May 9, 2005.			
	CQ	ILLES ZSOLT et al., "Modified amino acid copolymers suppress myelin basic protein 85-99-induced encephalomyelitis in humanized mice through different effects on T cells", Proc. Natl. Acad. Sci; Vol. 101, No. 32, (2004) (Abstract)			
	CR	JACCHIERI et al., "Proving the Influence of Sequence-Dependent Interactions upon α -Helix Stability in Alanine-Based Linear Peptides", Biopolymers, Vol. 33, No. 6, 971-984, 1993.			
	CS	KARANDIKAR et al., "Glatiramer acetate (Copaxone) therapy induces CD8+ T cell responses in patients with multiple sclerosis", J Clin Invest, Vol. 109, No. 5, 641-649, March 2002.			
	CT	KERSTEN et al., "Antigen delivery systems", Expert Rev. Vaccines 3(4), 453-462, 2004.			
Examiner Signature				Date Considered	



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Substitute for form 1449A/B/PTO				Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/591,315
(Use as many sheets as necessary)				Filing Date	September 1, 2006
				First Named Inventor	Kai W. Wucherpfennig
				Art Unit	1614
				Examiner Name	Not yet assigned
Sheet	3	of	4	Attorney Docket Number	PEPT-P01-006

	CU	KMLE Medical Dictionary – Online medical dictionary, terminology, abbreviations, drugs, pp. 1-8, 2006-2007.	
	CV	LA ROSA, C., "Enhanced immune activity of cytotoxic T-lymphocyte epitope analogs derived from positional scanning synthetic combinatorial libraries", Blood, Vol. 97, No. 6, 1776-1786, (2001).	
	CW	LAURSEN, R., et al., "Case Study 4-5 Characterization of the Epitope Specificity of Antibodies Using Membrane-Bound Peptides", supplied by the British Library, 117-122.	
	CX	LAWENDOWSKI, C., et al., "Solid-Phase Epitope Recovery: A High Throughout Method for Antigen Identification and Epitope Optimization", J of Immunol, 169: 2414-2421, (2002).	
	CY	LEBL, M., et al., "High-Throughout Peptide Synthesis", Methods in Molecular Biology, Vol. 298, Peptide Synthesis and Applications, 167-194 (2005).	
	CZ	LUSTGARTEN, J., et al., "Identification of Cross-Reactive Peptides Using Combinatorial Libraries Circumvents Tolerance against Her-2/neu-Immuno-dominant Epitope", J of Immunol, 176: 1796-1805 (2005).	
	CAA	MAGEE, C., et al., "Novel Strategies Using MHC Peptides", Therapeutic Immunosuppression, 101-126 (2001).	
	CBB	Merriam Webster's Collegiate Dictionary, Tenth Edition, 1996, pg. 36	
	CCC	NIEDERHAFNER, P., et al., "Peptide dendrimers", J of Peptide Sci, 11, 757-788 (2005).	
	CDD	PAPASSAVAS, A., "HLA Peptide-mediated Strategies for Modulation of Cellular and Humoral Immune Response in Transplantation", Curr Pharmacogenomics, Vol. 1, No. 1, 17-36 (2003).	
	CEE	PINILLA, C., et al., "Exploring immunological specificity using synthetic peptide combinatorial libraries", Curr Op Immunol, 11:193-202 (1999).	
	CFF	PINILLA, C., et al., "Investigation of antigen-antibody interactions using a soluble, non-support-bound synthetic decapeptide library composed of four trillion (4 x 10 ¹²) sequences, Biochem. J. 301, 847-853 (1994).	
	CGG	PRAKKEN, B., et al., "Epitope-specific immunotherapy induces immune deviation of proinflammatory T cells in rheumatoid arthritis", PNAS, Vol. 101, No. 12, 4228-4233 (2004).	
	CHH	QUANDT, J., et al., "Peptidic complex mixtures as therapeutic agents in CNS autoimmunity", Mole Immunol 40, 1075-1087 (2004).	
	CII	REINEKE, U., "Antibody Epitope Mapping Using Arrays of Synthetic Peptides", Methods in Mole Biol, Vol. 248443-463 (2004).	
	CJJ	SADLER, K., et al., "Peptide dendrimers: applications and synthesis" Reviews in Molecular Biotechnol 90, 195-229 (2002).	
	CKK	SAYEGH, M., et al., "Mechanisms of Acquired Thymic Unresponsiveness to Renal Allografts", Transplantation, Vol. 58, No. 2, 125-132, (1994).	
	CLL	SAYEGH, M., et al., "Induction of immunity and oral tolerance with polymorphic class II major histocompatibility complex allopeptides in the rat", Proc. Natl. Acad. Sci. USA, Vol. 89, 7762-7766 (1992).	
	CMM	SELIGMANN, B., et al., "Solid-Phase Peptide Synthesis, Lead Generation, and Optimization", Combinatorial Chemistry and Molecular Diversity in Drug Discovery, 39-109, 1998.	
	CNN	SHIN, D., et al., "Combinatorial Solid Phase Peptide Synthesis and Bioassays", J Biochem and Mole Biol, Vol. 38, No. 5, 517-525, (2005).	
	COO	T'HART, B., et al., "Evaluating the validity of animal models for research into therapies for immune-based disorders", Drug Discovery Today, VOL. 9, No. 12, pp. 517-524, 2004.	
	CPP	TSOKOS, G., "B Cells, Be Gone – B –Cell Depletion in the Treatment of Rheumatoid Arthritis, N. Engl J. Med 350, (25), pp. 2546-2548, 2004.	
	CQQ	WALDMANN, H., "Development and Clinical Use of CAMPATH 1H", Transplantation Rev., Vol. 17, No. 4, pp. S5-S7, 2003.	

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				Filing Date	September 1, 2006
				First Named Inventor	Kai W. Wucherpfennig
				Art Unit	1614
				Examiner Name	Not yet assigned
Sheet	4	of	4	Attorney Docket Number	PEPT-P01-006

	CRR	WANG, B., et al., "Multiple Paths for Activation of Naive CD8+ T Cells: CS4-Independent Help", J of Immunol, 167: 1283-1289 (2001).	
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Application No. (if known): 10/591,315

Attorney Docket No.: PEPT-P01-006

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